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1 Artificial life, evolutionary robotics, adaptive behavior: papers: Facilitating neural dynamics for delay compensation and prediction in evolutionary neural networks
Heejin Lim, Yoonsuck Choe
July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**
Publisher: ACM Press
Full text available: pdf(726.79 KB) Additional Information: full citation, abstract, references, index terms

Delay in the nervous system is a serious issue for an organism that needs to act in real time. For example, during the time a signal travels from a peripheral sensor to the central nervous system, a moving object in the environment can cover a significant distance which can lead to critical errors in the effect of the corresponding motor output. This paper proposes that facilitating synapses which show a dynamic sensitivity to the changing input may play an important role in compensating for neu ...

Keywords: delay compensation, evolutionary neural networks, extrapolation, facilitating synapses, neural delay, pole balancing

2 An intelligent agent approach for teaching neural networks using LEGO® handy board robots
Susan P. Imberman
September 2004 **Journal on Educational Resources in Computing (JERIC)**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(898.91 KB) Additional Information: full citation, abstract, references, index terms

In this article we describe a project for an undergraduate artificial intelligence class. The project teaches neural networks using LEGO® handy board robots. Students construct robots with two motors and two photosensors. Photosensors provide readings that act as inputs for the neural network. Output values power the motors and maintain the robot along the designated path. In doing this project, students come to realize the difference between training a neural network and the trained neural ...

Keywords: artificial intelligence, back propagation, handy board, neural networks, robotics

3

Neural networks and dynamic complex systems

Geoffrey Fox, Wojtek Furmanski, Alex Ho, Jeff Koller, Peter Simic, Isaac Wong
March 1989 **Proceedings of the 22nd annual symposium on Simulation ANSS '89**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms

We describe the use of neural networks for optimization and inference associated with a variety of complex systems. We show how a string formalism can be used for parallel computer decomposition, message routing and sequential optimizing compilers. We extend these ideas to a general treatment of spatial assessment and distributed artificial intelligence.

4 Modeling II: 3D object reconstruction and representation using neural networks

Lim Wen Peng, Siti Mariyam Shamsuddin
June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04**
Publisher: ACM Press
Full text available: pdf(468.49 KB) Additional Information: full citation, abstract, references

3D object reconstruction is frequent used in various fields such as product design, engineering, medical and artistic applications. Numerous reconstruction techniques and software were introduced and developed. However, the purpose of this paper is to fully integrate an adaptive artificial neural network (ANN) based method in reconstructing and representing 3D objects. This study explores the ability of neural networks in learning through experience when reconstructing an object by estimating it ...

Keywords: affined transformation, back propagation, multilayer feed-forward neural networks, object space, reconstruction, representation, third order polynomial

5 Neural networks and artificial intelligence

N. E. Sondak, V. K. Sondak
February 1989 **ACM SIGCSE Bulletin , Proceedings of the twentieth SIGCSE technical symposium on Computer science education SIGCSE '89**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(483.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Neural networks have been called "more important than the atomic bomb" and have received a major funding commitment from DARPA. Nevertheless, it is difficult to find even a mention of neural network concepts and applications in many computer science or information systems curricula. In fact, few computer science or information systems faculty are aware of the profound implications of neurocomputing on the future of their field. This paper contends that neural networks must be a ...

6 Time series forecasting using neural networks

Thomas Kolarik, Gottfried Rudorfer
August 1994 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL : the language and its applications: the language and its applications APL '94**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(657.67 KB) Additional Information: full citation, abstract, references, citings, index terms

Artificial neural networks are suitable for many tasks in pattern recognition and machine learning. In this paper we present an APL system for forecasting univariate time series

with artificial neural networks. Unlike conventional techniques for time series analysis, an artificial neural network needs little information about the time series data and can be applied to a broad range of problems. However, the problem of network "tuning" remains: parameters of the backpropagation a ...

7 Residual speech signal compression: an experiment in the practical application of neural network technology

Lorien Pratt, Kathleen D. Cebulka, Peter Clitherow

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90**

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Neural networks are a popular area of research today. However, neural network algorithms have only recently proven valuable to application problems. This paper seeks to aid in the process of transferring neural network technology from research to a development environment by describing our experience in applying this technology. The application studied here is Speaker Identity Verification (SIV), which is the task of verifying a speaker's identity by comparing the speaker's voice ...

8 Real time application of artificial neural network for incipient fault detection of induction machines

Mo-yuen Chow, Sui Oi Yee

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90**

Publisher: ACM Press

Full text available: pdf(751.83 KB) Additional Information: full citation, abstract, references, index terms

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-orde ...

9 Continuous learning: a design methodology for fault-tolerant neural networks

Vincenzo Piuri

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90**

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, index terms

Fault tolerance in artificial neural networks is an important feature, in particular when the application is critical or when maintenance is difficult. This paper presents a general design methodology for designing fault-tolerant architectures, starting from the behavioral description of the nominal network and from the nominal algorithm. The behavioral level is considered to detect errors due to hardware faults, while system survival is guaranteed by the reactivation of learning mechanisms ...

10 Mining sales data using a neural network model of market response

Thomas S. Gruca, Bruce R. Klemz, E. Ann Furr Petersen

June 1999 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(549.98 KB) Additional Information: full citation, abstract, references

Modeling aggregate market response is a core issue in marketing research. In this research, we extend previous forecasting comparative research by comparing the forecasting accuracy of feed-forward neural network models to the premier market modeling technique, Multiplicative Competitive Interaction (MCI) models. Forecasts are compared in two separate studies: (1) the Information Resources Inc. (IRI) coffee dataset from Marion, IN and (2) the A. C. Nielsen catsup dataset from Sioux Falls, SD. Ou ...

Keywords: market response model, neural networks, sales/market share forecasting

11 Poster papers: Extracting decision trees from trained neural networks

Olcay Boz
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(683.99 KB) Additional Information: full citation, abstract, references, index terms

Neural Networks are successful in acquiring hidden knowledge in datasets. Their biggest weakness is that the knowledge they acquire is represented in a form not understandable to humans. Researchers tried to address this problem by extracting rules from trained Neural Networks. Most of the proposed rule extraction methods required specialized type of Neural Networks; some required binary inputs and some were computationally expensive. Craven proposed extracting MofN type Decision Trees from Neur ...

12 Neural network simulation on shared-memory vector multiprocessors

C.-J. Wang, C.-H. Wu, S. Sivasindaram
August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(620.97 KB) Additional Information: full citation, abstract, references, index terms

We simulate three neural networks on a vector multiprocrssor. The training time can be reduced significantly especially when the training data size is large. These three neural networks are: 1) the feedforward network, 2) the recurrent network and 3) the Hopfield network. The training algorithms are programmed in such a way to best utilize 1) the inherent parallelism in neural computing, and 2) the vector and concurrent operations available on the parallel machine. To prove the correctness ...

13 Software for neural networks

James A. Anderson, Edward J. Wisniewski, Susan R. Viscuso
March 1988 **ACM SIGARCH Computer Architecture News**, Volume 16 Issue 1
Publisher: ACM Press
Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, index terms

Neural networks "compute" though not in the way that traditional computers do. It is necessary to accept their weaknesses to use their strengths. We discuss some of the assumptions and constraints that govern operation of neural nets, describe one particular non-linear network---the BSB model---in a little detail, and present two applications of neural network computations to illustrate some of the peculiarities inherent in this architecture. We show how a network can be trained to estimate answ ...

14 A multi-neural-network learning for lot sizing and sequencing on a flow-shop

In Lee, Jatinder N. D. Gupta, Amar D. Amar
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**
Publisher: ACM Press

Full text available: pdf(52.28 KB) Additional Information: full citation, references, index terms

Keywords: flow-shop, lot sizing, neural networks, sequencing

15 An intelligent neural network programming system (NNPS)

Tao Li, XiaoJie Liu
March 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(967.78 KB) Additional Information: full citation, abstract, citings, index terms

A neural network programming system based on parallel neural information processing has been presented. With the neural network programming system built upon a 100M local computer network, the system has thus provided users high speed, general purpose and large scale neural network application development platforms.

Keywords: neural networks, programming language, programming system

16 The development of a methodology for the use of neural networks and simulation modeling in system design

Mahdi Nasereddin, Mansooreh Mollaghasemi
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**
Publisher: ACM Press
Full text available: pdf(63.14 KB) Additional Information: full citation, references, index terms

17 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-speed networks

Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin
February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1
Publisher: IEEE Press
Full text available: pdf(342.90 KB) Additional Information: full citation, references, citings, index terms

18 NeuroAnimator: fast neural network emulation and control of physics-based models

Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton
July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

19 Constructing deterministic finite-state automata in recurrent neural networks

Christian W. Omlin, C. Lee Giles
November 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 6

Publisher: ACM Press

Full text available: pdf(646.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Recurrent neural networks that are trained to behave like deterministic finite-state automata (DFAs) can show deteriorating performance when tested on long strings. This deteriorating performance can be attributed to the instability of the internal representation of the learned DFA states. The use of a sigmoidel discriminant function together with the recurrent structure contribute to this instability. We prove that a simple algorithm can construct second-o ...

Keywords: automata, connectionism, knowledge encoding, neural networks, nonlinear dynamics, recurrent neural networks, rules, stability

20 On the optimal capacity of binary neural networks: rigorous combinatorial approaches

Jeong Han Kim, James R. Roche

July 1995 **Proceedings of the eighth annual conference on Computational learning theory**

Publisher: ACM Press

Full text available: pdf(805.24 KB) Additional Information: full citation, references, index terms

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L2	5140883	(clam connection connector coupling fastener joint junction link tie)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:35
L3	84652	(crimp crimping crimper)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:35
L4	324	(crimp adj1 height) (crimp adj width)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:36
L5	6	crimping and compression and (adhesion adj1 force)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:36
L6	61863	((neural neuron neuronic neuronal) adj1 (net network)) (artificial adj1 intelligence) (neuralnet) (expert adj1 system) inference (multilayer adj1 feedforward adj1 neural adj1 network) mlp	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:40
L7	62339	(estimate estimation evaluate evaluation guesstimate appraise appraisal guess measure measurement) adj1 (unit computer module section)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:43
L8	68509	(connect connection connecting) adj1 (data input)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:44
L9	32911	1 and 2 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:45

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L10	157	9 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:46
L11	1	10 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:46
L12	0	10 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:47
L13	0	3 and 4 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:47
L14	0	4 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:47
L15	41	6 and 7 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:48
L16	1	15 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:48
L17	391	706/16.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:49
L18	2	706/16.ccls. and conductor and connector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:49
L19	290	29/745.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:49

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L20	21	29/745.ccls. and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:49
L21	0	20 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:50
L22	628	29/747.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:50
L23	85	29/747.ccls. and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:50
L24	0	23 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:51
L25	97	72/21.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:51
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L28	356	29/861.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:55
L29	89	29/861.ccls. and deform$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:55

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L30	0	29/861.ccls. and deform$4 and (connection adj1 data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:55
L31	592	29/857.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:55
L32	110	29/857.ccls. and deform$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:56
L33	12	29/857.ccls. and deform$4 and connection and data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:56
L34	0	33 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:56
L35	170	29/844.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:56
L36	3	29/844.ccls. and deform$4 and connection and data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 19:59
L37	53384	174/1-100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:00
L38	22	37 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:00
L39	2	38 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:01

EAST Search History

L40	26452	174/101-212.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:01
L41	4	40 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:01
L42	1042	(nobuhiro kakuhari.in.) and (naoki ito.in.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:02
L43	5	(nobuhiro kakuhari.in.) and (naoki ito.in.) and crimp$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 20:03
L44	1	(conductor and connector and (estimation adj1 unit)).clm.	US-PGPUB; USPAT	OR	OFF	2006/09/12 20:04
L45	1	(conductor and connector and (estimation adj1 unit) and (crimp adj1 height) and (crimp adj1 width) and (adhesion adj1 force)).clm.	US-PGPUB; USPAT	OR	OFF	2006/09/12 20:05
L46	1	(conductor and connector and (estimation adj1 unit) and (crimp adj1 height) and (crimp adj1 width) and (adhesion adj1 force) and (multilayer adj1 feedforward ajd1 neural adj1 network)).clm.	US-PGPUB; USPAT	OR	OFF	2006/09/12 20:06